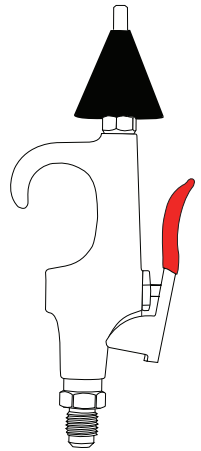
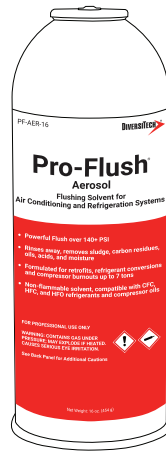
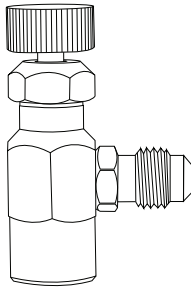
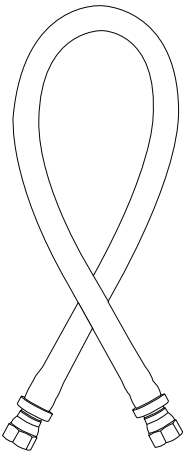


Pro-Flush® Aerosol INSTRUCTIONS





Thank you for your purchase of Pro-Flush® Aerosol HVAC Flushing Solvent. Pro-Flush® is a line flushing solvent for air conditioning and refrigeration systems, formulated for retrofits, refrigerant conversions and compressor burnouts. Pro-Flush® is compatible with CFC, HFC and HFO refrigerants and compressor oils, and is the answer for technicians who need a professional quality flushing solvent as well as the components to match.

This flushing solvent is residue free and has low toxicity. Pro-Flush® Aerosol is available both as a kit or in a 16 oz. aerosol refill. This kit makes servicing quick, easy, and safe and ensures you have all the necessary hardware in hand for 1-stop servicing. One 16 oz. can of Pro-Flush® will treat up to 350 feet of liquid line. Treatment results will vary depending on the application and conditions of the line set when serviced.

This kit includes:

- 16 ounce Pro-Flush® aerosol
- Aerosol valve actuator
- Flush hose
- Injector trigger nozzle

Pro-Flush® HVAC & Refrigeration Systems Flush Detailed Application Instructions

The trigger injector on the tool assembly assures efficient use of the cleaning solvent by allowing control of the flushes instead of the less efficient method of flushing in one long burst. The Pro-Flush® is a dual-purpose blend designed to clean line sets in preparation of changing from HCFC's to HFC's or HF's (mineral oil or AB oil to POE oil) as well as to flush out the contaminants from a system after a compressor burnout. Typically, due to the high acidic level of contamination in a burnout, more solvent will be required in system flushes than in lineset flushes. The Pro-Flush® Aerosol solvent is non-ozone depleting and has low toxicity.

I. Equipment Required

1. Pro-Flush® Aerosol Kit including one 16 oz. can of Pro-Flush® Aerosol for every 3-7 tons of system capacity.
2. A Nitrogen source supplied by the user.
3. Resealable container to hold the contaminated flush material.
4. Recovery machine, vacuum pump, and refrigerant gauges, etc.
5. Absorbent shop towels, rubber gloves and safety goggles.

II. How to use the Flush Aerosol Container

1. Attach the hose and aerosol injector tool assembly to the aerosol can. Take caution and **DO NOT OVERTIGHTEN VALVE ON AEROSOL CAN.** Open Actuator valve.



II. How to use the Flush Aerosol Container (cont.)

2. Insert the rubber adapter in the inlet port and maintain the aerosol container in an upright position. Inject Pro-Flush® Aerosol solvent in 3 second increments (2-3 oz./ton). The number of flushes will depend on the size of the system and the contamination level.

III. Detailed Instructions

1. Please wear the appropriate PPE for the task being performed before beginning. Follow all industry best practices and keep safety in mind.
2. Always isolate the voltage to the equipment being serviced before beginning work.
3. Evacuate the system using EPA approved techniques and certified recovery equipment. Once the system is evacuated. Remove filter driers/cores and dispose of them properly in accordance with local and state waste disposal regulations.
4. Bypass expansion device, compressor, accumulator, receiver, reversing valve, etc. If this is a burnout, please remove the compressor at this time.
5. In cases of burnout disassemble and flush in sections the condenser, evaporator and line set. If doing just a refrigerant conversion, you need only flush the line set. To maximize solvent contact time, restrict the flow out of the item being flushed. For linesets crimp or restrict the lineset outlet while cleaning to allow more contact of the internal surfaces.
6. Make sure a resealable waste container is attached to an outlet of the item you're flushing to capture the flushed contaminants, note in the event of a burnout the containments will be acidic.
7. Once cleaned purge the item at 150 PSI for 1-2 minutes with nitrogen. Nitrogen will be needed from a nitrogen tank supplied by the user. This will ensure removal of all trace amounts of oil residue and solvents. Check the solvent at the outlet port to be sure all contaminants have been purged from the system. If the exiting solvent is not yet clear repeat the flush. Followed by a nitrogen purge.
8. Remove any bypasses installed and reconnect the components and the lines. In the case of a burnout, at this time install the new compressor. Install a new filter drier/core. Always install a new filter drier when either doing a refrigerant conversion or replacing a compressor after a burnout.
9. Once the system is reconnected use the vacuum pump to evacuate the system to a low 500 or less micron reading. The typical evacuation time is approximately 3-4 minutes per ton.
10. Recharge the system with the appropriate refrigerant per the equipment manufacturer's recommendations. Check your work to ensure there are no refrigerant leaks.
11. Reconnect the electrical circuitry and test the system. Again, please follow all manufacturer recommendations.



III. Detailed Instructions (cont.)

12. Any unused Pro-Flush® Aerosol solvent can be saved for future use. Ensure all injector valves are closed on the aerosol. Remove aerosol injector valve from aerosol to prevent solvent loss during storage. Store in clean location.
13. Dispose of the waste solvent in accordance with local and state waste disposal regulations.

These recommended quantities are based on typical flush situations during a conversion from R-22 to R-410A.

In the event of compressor burn out double the amount of flush required to compensate for the added containment load. This is for lines only and no calculation was considered for any components outside the line set.

Line Size (in.)	Feet per 16 oz. Can	Feet per Ounce
3/8	1 can Treats 350 Feet	21.8
1/2	1 can Treats 280	17.5
5/8	1 can Treats 210	13.1
3/4	1 can Treats 140	8.7
7/8	1 can Treats 70	4.4
1	1 can Treats 58	3.5
1-1/8	1 can Treats 54	3.3
1-1/4	1 can Treats 50	3.1
1-1/2	1 can Treats 43	2.6
1-5/8	1 can Treats 39	2.4
1-3/4	1 can Treats 36	2.3
1-7/8	1 can Treats 35	2.2
2	1 can Treats 34	2.1